INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/003428

CLASSIFICATION OF SUBJECT MATTER

Int.Cl. 7 H01L33/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl. H01L33/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996

Published unexamined utility model applications of Japan 1971-2005

Registered utility model specifications of Japan 1996-2005

Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.	
х	JP 2003-101160 A (N 2003.04.04, [0057], 001/0004223 A1 & A1 & AU 5342098 335 A	[0077] & US 2 EP 1017113	1,2,5,17,22, 24,25	
х	JP 2003-179260 A (N 2003.06.27, [0016] None	<u>-</u>	1,2,5,17,22, 24,25	
х	JP 2004-6991 A (NICHE 04.01.08, [0030] & 5579 A1		1,2,5,17,22, 24,25	
Further documents are listed in the continuation of Box C. Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" carlier application or patent but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family				
Date of the actual completion of the international search 27.05.2005 Date of mailing of the international search report 14.6.2005				
Name and mailing address of the ISA/JP Japan Patent Office		Authorized officer Tsuchiya Tomohisa	2K 8826	
	umigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Telephone No. +81-3-3581-1101	Ext. 3255	
Form PCT/ISA/210 (second sheet) (January 2004)				
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C (Continuati	ion). DOCUMENTS CONSIDERED TO BE RELEVANT	· · · · · · · · · · · · · · · · · · ·	
Category*			
		Relevant to claim No.	
x	JP 2003-78169 A (NICHIA Corporation) 2 003.03.14, [0053], [0058], [0075], fig1&6 & US 2003/0151044 A1 & US 2003/0209704 A1	1,2,5,17,22	
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INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/003428

Box No.	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)		
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1. 「	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
2. 「	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
3. 「	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box No.			
The su 7], [P The su 7], [emational Searching Authority found multiple inventions in this international application, as follows: bject matter of claim 1 does not appear to be novel with respect to JP 2003-101160 A ([005 0077]), JP 2003-179260 A ([0024]), JP 2004-6991 A ([0030]), J 2003-78169 A (figl&6). bject matter of claim 24 does not appear to be novel with respect to JP 2003-101160 A ([005 0077]), JP 2003-179260 A ([0024]), JP 2004-6991 A ([0030]). subject matter of claim 1&24 does not have any new special technical features.		
1. 🗀	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.		
2. 「	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.		
3. 厂	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
4. V	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1, 2, 5, 17, 22, 24, 25 The additional search fees were accompanied by the applicant's protest.		
Kemar	No protest accompanied the payment of additional search fees.		